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United States Patent [19]

Austin et al.

[11] **Patent Number:** 5,410,906[45] **Date of Patent:** May 2, 1995[54] **METHOD FOR DETERMINING DAMPING COEFFICIENTS**

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[58] **Field of Search** 73/11.04, 12.01, 12.09

[56] **References Cited****U.S. PATENT DOCUMENTS**

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[57] **ABSTRACT**

There is disclosed a method for determining damping coefficients, the method including the steps of providing a damper assembly including a bar of known parameters, and a viscous damper, wherein a first end of the bar is disposed in the viscous damper while the second end of the bar is free, applying a known force to the second end of the bar in a direction toward the first end of the bar, measuring the response function of the assembly, comprising the ratio of the bar acceleration to the applied force, determining the eigenvalues of the response function, and from the eigenvalues computing the damping coefficient of the damper assembly.

3 Claims, 3 Drawing Sheets

